west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
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Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

February 13, 2017

Bradley D. Ball, Authorized Agent
Mingo Logan Coal Company
PO Box E
Sharples, WV 25183

Re: Application Status: Approved
Mingo Logan Coal Company
Cardinal Preparation Plant
Registration Application G10-D068I
Plant ID No. 045-00119

Dear Mr. Ball:

Your application for a General Permit G10-D registration to modify a wet wash coal preparation plant and railcar loadout as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed registration G10-D068I is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

This permit does not affect 45CSR30 applicability. The source is a nonmajor source subject to 45CSR30.

In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions, please contact me at (304) 926-0499, ext. 1210.

Sincerely,

Daniel P. Roberts, Engineer Trainee
NSR Permitting Section

Enclosures

c: Bradley D. Ball, bball@archcoal.com
Joe Vance, jvance@archcoal.com
Donna Toler, P & A Engineers and Consultants, Inc., donnatoler@suddenlink.net

West Virginia Department of Environmental Protection
Division of Air Quality

Jim Justice
Governor

Austin Caperton
Cabinet Secretary

Class II General Permit G10-D Registration for a Class II Administrative Update

for the
Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation,
Administrative Update and Operation of
Coal Preparation Plants and Coal Handling Operations

The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of General Permit G10-D.

G10-D068I

Issued to:
Mingo Logan Coal Company
Cardinal Preparation Plant
045-00119

William F. Durham
Director

Effective: February 13, 2017

This Class II General Permit Registration will supercede and replace registration G10-D068H approved on May 14, 2015.

Facility Location:	Sharples, Logan County, West Virginia
Mailing Address:	PO Box E, Sharples, WV 25183
Facility Description:	Wet Wash Coal Preparation Plant
SIC Code:	1221 (Bituminous Coal & Lignite - Surface)
NAICS Code:	212111 (Bituminous Coal and Lignite Surface Mining)
UTM Coordinates:	Easting: 429.7954 km • Northing: 4195.8321 km • NAD83 Zone 17N
Lat/Lon Coordinates:	Latitude: 37.907315 • Longitude: -81.798611 • NAD83
Registration Type:	Class II Administrative Update
Description of Change:	Modification to increase the maximum hourly throughput rate of reclaim belt conveyors BC-26, BC-27 and BC-41 from 1,500 TPH to 6,000 TPH, which will affect transfer points TP52, TP53, TP54, TP55, TP56, TP57, TP58 and TP90. There will be no change in the currently permitted maximum annual throughput rates.

Subject to 40CFR60 Subpart Y? Yes
Subject to 40CFR60 Subpart IIII? No
Subject to 40CFR60 Subpart JJJJ? No

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

This permit does not affect 45CSR30 applicability. The source is a nonmajor source subject to 45CSR30.

All registered facilities under Class II General Permit G10-D are subject to Sections 1.0, 1.1, 2.0, 3.0 and 4.0.

The following sections of Class II General Permit G10-D apply to the registrant:

Section 5	Coal Preparation and Processing Plants and Coal Handling Operations	☐☑
Section 6	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after October 27, 1974, and on or before April 27, 2008 (40CFR60 Subpart Y)	☐☑
Section 7	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after April 28, 2008, and on or before May 27, 2009 (40CFR60 Subpart Y)	☐
Section 8	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after May 27, 2009 (40CFR60 Subpart Y)	☐☑
Section 9	Reciprocating Internal Combustion Engines (R.I.C.E.)	☐
Section 10	Tanks	☐
Section 11	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart IIII)	☐
Section 12	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)	☐

Emission Units

Equipment ID No.	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Permitted Throughput		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Device [3]
Deep Mined Raw Coal Circuit									
BC-01	C 2005	5 and 6	Mine Belt Conveyor - transfers raw coal from mine to BC-02	7,000	12,893,143	FE	B A	TP-01 TP-02	TC-FE TC-FE
BC-02	C 2005	5 and 6	Belt Conveyor - transfers raw coal from BC-01 to OS-01, OS-16, OS-17 or BC-03	7,000	12,893,143	PE	B A A A A	TP-02 TP-03 TP-105 TP-107 TP-04	TC-FE TC-FE TC-WS TC-WS TC-FE
OS-01	M 2014 * C 2005	5 and 8	Raw Coal Open Stockpile with stacking tube - maximum 150,000 tons capacity, 288,869 ft^2 base area, and 80' height - receives raw coal from BC-02 and has underground reclaim feeders to BC-10 (* 2014 - Increased from 75,000 tons to 150,000 tons capacity and from 115,540 ft^2 to 288,869 ft^2 base area)	7,000 in 2,300 out	12,893,143	WS-ST	B A	TP-03 TP-20	TC-FE LO-UC
OS-16	C 2014	5 and 8	Raw Coal Open Stockpile - maximum 50,000 tons capacity, 88,869 ft^2 base area, and 80' height - maximum receives raw coal from BC-02 via a chute and has underground reclaim feeders to BC-10	7,000	3,500,000	SW-WS	B A	TP-105 TP-106	TC-WS LO-UC
OS-17	C 2014	5 and 8	Raw Coal Open Stockpile - maximum 50,000 tons capacity, 88,869 ft^2 base area, and 80' height - maximum receives raw coal from BC-02 via a chute and has underground reclaim feeders to BC-10	7,000	3,500,000	SW-WS	B A	TP-107 TP-108	TC-WS LO-UC
BC-03	C 2005	5 and 6	Belt Conveyor - transfers raw coal from BC-02 to OS-02 or BC-04	7,000	12,893,143	PE	B A A	TP-04 TP-05 TP-06	TC-FE TC-FE TC-FE

Equip-ment ID No.	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Permitted Throughput		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Device [3]
OS-02	M 2014 * C 2005	5 and 8	Raw Coal Open Stockpile with stacking tube - maximum 150,000 tons capacity, 288,869 ft² base area, and 80' height - receives raw coal from BC-03 and has underground reclaim feeders to BC-10 (* 2014 - Increased from 75,000 tons to 150,000 tons capacity and from 115,540 ft² to 288,869 ft² base area)	7,000 in 2,300 out	12,893,143	WS-ST	B A	TP-05 TP-21	TC-FE LO-UC
BC-04	C 2005	5 and 6	Belt Conveyor - transfers raw coal from BC-03 to OS-03 or BC-05	7,000	12,893,143	PE	B A A	TP-06 TP-07 TP-08	TC-FE TC-FE TC-FE
OS-03	M 2014 * C 2005	5 and 8	Raw Coal Open Stockpile with stacking tube - maximum 150,000 tons capacity, 288,869 ft² base area, and 80' height - receives raw coal from BC-04 and has underground reclaim feeders to BC-10 (* 2014 - Increased from 75,000 tons to 150,000 tons capacity and from 115,540 ft² to 288,869 ft² base area)	7,000 in 2,300 out	12,893,143	WS-ST	B A	TP-07 TP-22	TC-FE LO-UC
BC-05	C 2005	5 and 6	Belt Conveyor - transfers raw coal from BC-04 to OS-04	7,000	12,893,143	PE	B B A	TP-08 TP-102 TP-09	TC-FE TC-FE TC-FE
OS-04	M 2014 * C 2005	5 and 8	Raw Coal Open Stockpile with stacking tube - maximum 150,000 tons capacity, 288,869 ft² base area, and 80' height - receives raw coal from BC-05 and BC-06 and has underground reclaim feeders to BC-10 (* 2014 - Increased from 75,000 tons to 150,000 tons capacity and from 115,540 ft² to 288,869 ft² base area)	7,000 in 2,300 out	12,893,143	WS-ST	B B A	TP-09 TP-13 TP-23	TC-FE TC-FE LO-UC
BC-10	C 2005	5 and 6	Belt Conveyor - transfers raw coal from OS-01 through OS-04 (underground reclaim feeders) to BC-11	2,300	16,393,413	FE	B B B B A	TP-20 TP-21 TP-22 TP-23 TP-24	LO-UC LO-UC LO-UC LO-UC TC-FE
BC-11	C 2005	5 and 6	Belt Conveyor - transfers raw coal from BC-10 to CR-02	2,300	16,393,413	PE	B A	TP-24 TP-25	TC-FE TC-FE
CR-02	C 2005	5 and 6	Sizer - receives raw coal from BC-11, crushes it and drops to BC-13	2,300	16,393,143	FW	B A	TP-25 TP-27	TC-FE TC-FE
BC-13	C 2005	5 and 6	Belt Conveyor - transfers raw coal from CR-02 to the prep plant	2,300	16,393,413	PE	B A	TP-27 TP-29	TC-FE TC-WW
Trucked Raw Coal Circuit									
OS-15	Not Yet Constructed *	5 and 8	Raw Coal Open Stockpile - maximum 10,000 tons capacity, 18,869 ft² base area, and 45' height - receives raw coal from truck and transferred by front-end loader to bin BS-01 (* Permitted in 2005, but not yet constructed as of 2017)	400	3,500,000	SW-WS	B A	TP-103 TP-104	UL-MDH UD-PW
BS-01	Not Yet Constructed *	5 and 8	150 ton Truck Dump Bin - receives raw coal from trucks and drops to CR-01 (* Permitted in 2005, but not yet constructed as of 2017)	1,000	3,500,000	PW	B B A	TP-10 TP-104 TP-11	UD-PW UD-PW TC-FW
CR-01	Not Yet Constructed *	5 and 8	Hydraulic Rotary Breaker - receives raw coal from BS-01, crushes it and drops to BC-06 (* Permitted in 2005, but not yet constructed as of 2017)	1,000	3,500,000	FW	B A	TP-11 TP-12	TC-FW TC-FW
BC-06	Not Yet Constructed *	5 and 8	Belt Conveyor - transfers raw coal from CR-01 to open raw coal stockpile OS-04 (* Permitted in 2005, but not yet constructed as of 2017)	1,000	3,500,000	PE	B A	TP-12 TP-13	TC-FW TC-FE
BS-08	Not Yet Constructed *	5 and 8	150 ton Truck Dump Bin - receives raw coal from trucks and drops to CR-11 (* Permitted in 2011, but not yet constructed as of 2017)	1,000	3,500,000	PW	B A	TP-99 TP-100	UD-PW TC-FW
CR-11	Not Yet Constructed *	5 and 8	Hydraulic Rotary Breaker - receives raw coal from BS-08, crushes it and drops to BC-45 (* Permitted in 2011, but not yet constructed as of 2017)	1,000	3,500,000	FW	B A	TP-100 TP-101	TC-FW TC-FE
BC-45	Not Yet Constructed *	5 and 8	Belt Conveyor - transfers raw coal from CR-11 to BC-05 (* Permitted in 2011, but not yet constructed as of 2017)	1,000	3,500,000	PE	B A	TP-101 TP-102	TC-FE TC-FE

Equip-ment ID No.	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Permitted Throughput		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Device [3]
Portable Raw Coal Crusher									
CR-04	C 2007	5 and 6	Stamler Breaker - receives raw coal from trucks, crushes it and drops to BC-37	1,500	3,500,000	FE	B A	TP-77 TP-78	UL-MDH TC-FE
BC-37	C 2007	5 and 6	Belt Conveyor - transfers raw coal from CR-04 to existing raw coal stockpiles (see Deep Mined Raw Coal Circuit)	1,500	3,500,000	NC	B A	TP-78 TP-79	TC-FE TC-MDH
Clean Coal Circuit									
CR-07	C 2005 *	5 and 6	McClanahan Primary Double Roll Sizing Crusher - located within the preparation plant, this crusher receives oversize coal from separate clean coal circuits for sizing prior to exiting on belt conveyor BC-15 (* Constructed in 2005, but not included in the permit until 2011)	250	2,190,000	FW	B A	TP-29 TP-93	TC-WW TC-FW
CR-08	C 2005 *	5 and 6	McClanahan Primary Double Roll Sizing Crusher - located within the preparation plant, this crusher receives oversize coal from separate clean coal circuits for sizing prior to exiting on belt conveyor BC-15 (* Constructed in 2005, but not included in the permit until 2011)	250	2,190,000	FW	B A	TP-29 TP-94	TC-WW TC-FW
CR-09	C 2005 *	5 and 6	McClanahan Primary Double Roll Sizing Crusher - located within the preparation plant, this crusher receives oversize coal from separate clean coal circuits for sizing prior to exiting on belt conveyor BC-15 (* Constructed in 2005, but not included in the permit until 2011)	250	2,190,000	FW	B A	TP-29 TP-95	TC-WW TC-FW
CR-10	C 2007 *	5 and 6	Gunlach Primary Double Roll Sizing Crusher - located within the preparation plant, this crusher receives oversize coal from separate clean coal circuits for sizing prior to exiting on belt conveyor BC-15 (* Constructed in 2005, but not included in the permit until 2011)	400	876,000	FW	B A	TP-29 TP-95	TC-WW TC-FW
BC-15	C 2005	5 and 6	Belt Conveyor - transfers clean coal from the prep plant to OS-08 or BC-16	1,500	9,016,229	PE	B A A	TP-30 TP-31 TP-32	TC-WW TC-FE TC-FE
OS-08	M 2014 * C 2005	5 and 8	75,000 ton Clean Coal Open Stockpile with stacking tube - maximum 100,000 tons capacity, 188,869 ft^2 base area, and 80' height - receives clean coal from BC-15 and has underground reclaim feeders to BC-27 (* 2014 - Increased from 75,000 tons to 100,000 tons capacity and from 115,540 ft^2 to 188,869 ft^2 base area)	1,500 in 6,000 out	12,516,229	WS-ST	B A	TP-31 TP-53	TC-FE LO-UC
BC-16	C 2005	5 and 6	Belt Conveyor - transfers clean coal from BC-15 to OS-09 or BC-17	1,500	9,016,229	PE	B A A	TP-32 TP-33 TP-34	TC-FE TC-FE TC-FE
OS-09	M 2014 * C 2005	5 and 8	Clean Coal Open Stockpile with stacking tube - maximum 100,000 tons capacity, 188,869 ft^2 base area, and 80' height - receives clean coal from BC-16 and has underground reclaim feeders to BC-27 (* 2014 - Increased from 75,000 tons to 100,000 tons capacity and from 115,540 ft^2 to 188,869 ft^2 base area)	1,500 in 6,000 out	12,516,229	WS-ST	B A	TP-33 TP-54	TC-FE LO-UC
BC-17	C 2005	5 and 6	Belt Conveyor - transfers clean coal from BC-16 to OS-10 or BC-18	1,500	9,016,229	PE	B A A	TP-34 TP-35 TP-36	TC-FE TC-FE TC-FE
OS-10	M 2014 * C 2005	5 and 8	Clean Coal Open Stockpile with stacking tube - maximum 100,000 tons capacity, 188,869 ft^2 base area, and 80' height - receives clean coal from BC-17 and has underground reclaim feeders to BC-27 (* 2014 - Increased from 75,000 tons to 100,000 tons capacity and from 115,540 ft^2 to 188,869 ft^2 base area)	1,500 in 6,000 out	12,516,229	WS-ST	B A	TP-35 TP-55	TC-FE LO-UC

Equip-ment ID No.	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Permitted Throughput		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Device [3]
BC-18	C 2005	5 and 6	Belt Conveyor - transfers clean coal from BC-17 to OS-11 or BC-25	1,500	9,016,229	PE	B A	TP-36 TP-37	TC-FE TC-FE
OS-11	M 2014 * C 2005	5 and 8	Clean Coal Open Stockpile with stacking tube - maximum 100,000 tons capacity, 188,869 ft² base area, and 80' height - receives clean coal from BC-18 and BC-14 (see Trucked Direct Ship Coal below) and has underground reclaim feeders to BC-27 (* 2014 - Increased from 75,000 tons to 100,000 tons capacity and from 115,540 ft² to 188,869 ft² base area)	2,500 in 6,000 out	12,516,229	WS-ST	B B A	TP-37 TP-41 TP-56	TC-FE TC-FE LO-UC
BC-27	M 2017 C 2005	5 and 8	Belt Conveyor - transfers clean coal from OS-08 through OS-11 (underground reclaim feeders) and BC-41 to BC-28	6,000	12,516,229	FE	B B B B B A	TP-53 TP-54 TP-55 TP-56 TP-90 TP-58	LO-UC LO-UC LO-UC LO-UC TC-FE TC-FE
BC-28	C 2005	5 and 6	Belt Conveyor - transfers clean coal from BC-27 to BS-03	6,000	12,516,229	FE	B A	TP-58 TP-59	TC-FE TC-FE
BS-03	C 2005	5 and 6	300 ton Clean Coal Rail Surge Bin - receives clean coal from BC-28 and drops to BS-04	6,000	12,516,229	FE	B A	TP-59 TP-60	TC-FE LO-UC
BS-04	C 2005	5 and 6	125 ton Clean Coal Weigh Bin - receives clean coal from BS-03 and drops to railcars	6,000	12,516,229	FE	B A	TP-60 TP-61	LO-UC LO-UC
Clean Coal Middlings Circuit									
BC-19	M 2015 C 2005	5 and 8	Belt Conveyor - transfers clean coal middlings from the prep plant to the clean coal middlings rewash plant	400	3,500,000	PE	B A	TP-42 TP-43	TC-WW TC-WW
BC-20	M 2015 C 2005	5 and 8	Belt Conveyor - transfers clean coal middlings from the prep plant to the clean coal middlings rewash plant	400	3,500,000	PE	B A	TP-45 TP-44	TC-WW TC-WW
BC-21	M 2015 C 2005	5 and 8	Belt Conveyor - transfers clean coal middlings from rewash plant to BC-22	400	3,500,000	PE	B A	TP-46 TP-47	TC-WW TC-FE
BC-22	M 2015 C 2005	5 and 8	Belt Conveyor - transfers clean coal middlings from BC-21 to BC-23	400	3,500,000	PE	B A	TP-47 TP-48	TC-FE TC-FE
BC-23	M 2015 C 2005	5 and 8	Belt Conveyor - transfers clean coal middlings from BC-22 to BC-24	400	3,500,000	PE	B A	TP-48 TP-49	TC-FE TC-FE
BC-24	M 2015 C 2005	5 and 8	Belt Conveyor - transfers clean coal middlings from BC-23 to BC-25	400	3,500,000	PE	B A	TP-49 TP-50	TC-FE TC-FE
BC-25	M 2015 C 2005	5 and 8	Belt Conveyor - transfers clean coal from BC-18 and BC-14 (see Trucked Direct Ship Coal below) to OS-12	400	3,500,000	PE	B B A	TP-41 TP-50 TP-51	TC-FE TC-FE TC-FE
OS-12	M 2015 ** M 2014 * C 2005	5 and 8	Clean Coal Open Stockpile with stacking tube - maximum 100,000 tons capacity, 188,869 ft² base area, and 80' height - receives clean coal from BC-25 and has underground reclaim feeders to BC-26 (* 2014 - Increased from 75,000 tons to 100,000 tons capacity and from 115,540 ft² to 188,869 ft² base area) (**2015 - increased the maximum annual throughput from 876,000 to 3,500,000 TPY)	400 in 6,000 out	3,500,000	WS-ST	B A	TP-51 TP-52	TC-FE LO-UC
BC-26	M 2017 M 2015 C 2005	5 and 8	Belt Conveyor - transfers clean coal from OS-12 to BC-41	6,000	3,500,000	PE	B A	TP-52 TP-57	LO-UC LO-UC
BC-41	M 2017 M 2015 C 2009 *	5 and 8	Belt Conveyor - transfers clean coal from BC-26 to BC-27 (* Permitted in registration G10-D068D approved on 1/11/10)	6,000	3,500,000	PE	B A	TP-57 TP-90	LO-UC TC-FE
Trucked Direct Ship Coal									
BS-02	Not Yet Constructed *	5 and 8	150 ton Truck Dump Bin - receives direct ship coal from trucks and drops to CR-03 (* Permitted in 2005, but not yet constructed as of 2017)	1,000	3,500,000	FE	B A	TP-38 TP-39	LO-PE LO-UC
CR-03	Not Yet Constructed *	5 and 8	Sizer - receives direct ship coal from BS-02, crushes it and drops to BC-14 (* Permitted in 2005, but not yet constructed as of 2017)	1,000	3,500,000	FE	B A	TP-39 TP-40	LO-UC TC-FE

Equipment ID No.	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Permitted Throughput		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Device [3]
BC-14	Not Yet Constructed *	5 and 8	Belt Conveyor - transfers direct ship coal from CR-03 to OS-11 or BC-25 (see Clean Coal Middlings Circuit above) (* Permitted in 2005, but not yet constructed as of 2017)	1,000	3,500,000	PE	B A	TP-40 TP-41	TC-FE TC-FE
Portable Clean Coal Crusher (G10-C068D)									
OS-14	C 2009 *	5 and 8	Direct Ship Open Stockpile - maximum 5,000 tons capacity, 8,869 ft² base area, and 35' height - receives direct ship coal from trucks and a front endloader transfers to BS-06 (* Constructed in 2009, but not included in the registration until 2010)	400	3,500,000	SW-WS	B A	TP-80 TP-81	UL-MDH UD-PW
BS-06	C 2007 *	5 and 6	30 Ton Direct Ship Feed Bin - receives direct ship coal from a front endloader and drops to CR-12 (* Constructed in 2009, but not included in the registration until 2010)	400	3,500,000	PW	B A	TP-81 TP-109	UD-PW TC-FE
CR-12	C 2015	5 and 8	Breaker - receives direct ship coal from BS-06, crushes it and then drops it onto BC-42	400	3,500,000	FW	B A	TP-109 TP-110	TC-FE TC-FW
BC-42	C 2009 *	5 and 8	Belt Conveyor - transfers direct ship clean coal from BS-06 to crusher CR-05 (* Constructed in 2009, but not included in the registration until 2010)	400	3,500,000	NC	B A	TP-110 TP-91	TC-FW TC-FE
CR-05	C 2007 *	5 and 6	Double Roll Crusher - receives direct ship coal from BC-42, crushes it and drops to BC-43 (* Constructed in 2007, but not included in the registration until 2010)	400	3,500,000	FW	B A	TP-91 TP-83	TC-FE TC-PW
BC-43	C 2009 *	5 and 8	Belt Conveyor - transfers direct ship clean coal from crusher CR-05 to belt conveyor BC-38 (* Constructed in 2009, but not included in the registration until 2010)	400	3,500,000	NC	B A	TP-83 TP-92	TC-PW TC-PE
BC-38	C 2007 *	5 and 6	Belt Conveyor - transfers direct ship coal from BC-43 to existing clean coal stockpiles area (see OS-08 through OS-12 in the Clean Coal Circuit) (* Constructed in 2007, but not included in the registration until 2010)	400	3,500,000	NC	B A	TP-92 TP-84	TC-PE TC-MDH
Trucked Clean Coal Circuit (G10-C068C)									
BS-07	Not Yet Constructed *	5 and 8	200 ton Truck Dump Bin - receives clean coal from trucks and drops to BC-39 (* Permitted in 2009, but not yet constructed as of 2017)	1,000	8,760,000	PW	B A	TP-85 TP-86	UD-PE TC-FE
BC-39	Not Yet Constructed *	5 and 8	Belt Conveyor - transfers clean coal from BS-07 to CR-06 (* Permitted in 2009, but not yet constructed as of 2017)	1,000	8,760,000	PE	B A	TP-86 TP-87	TC-FE TC-FE
CR-06	Not Yet Constructed *	5 and 8	Double Roll Crusher - receives clean coal from BC-39, crushes it and drops to BC-40 (* Permitted in 2009, but not yet constructed as of 2017)	1,000	8,760,000	FW	B A	TP-87 TP-88	TC-FE TC-FE
BC-40	Not Yet Constructed *	5 and 8	Belt Conveyor - transfers clean coal from CR-06 to OS-11 (* Permitted in 2009, but not yet constructed as of 2017)	1,000	8,760,000	PE	B A	TP-88 TP-89	TC-FE TC-FE
Refuse Circuit									
BC-29	C 2005	5 and 6	Belt Conveyor - transfers refuse from prep plant to BC-30 or BC-31	1,500	7,376,914	PE	B A	TP-62 TP-63	TC-WW TC-PE
BS-05	C 2005	NA	100 ton Lime Storage Bin - drops lime onto refuse on BC-29	-----	20,000	FE	B A	NA NA	NA NA
BC-30	C 2005	5 and 6	Belt Conveyor - transfers refuse from BC-29 to OS-13 where an endloader transfers to trucks	1,500	1,000,000	PE	B A	TP-64 TP-65	TC-FE TC-MDH
OS-13	C 2005	5 and 6	Refuse Stockpile - - maximum 3,000 tons capacity, 4,869 ft² base area, and 30' height receives refuse from BC-30, refuse is transferred by endloader to trucks for transport to the refuse area	1,500 in 114 out	1,000,000	WS	B A A	TP-65 TP-66 TP-67	TC-MDH LO-NC UL-NC
BC-31	C 2005	5 and 6	Belt Conveyor - transfers refuse from BC-29 to BC-32 or BC-33	1,500	7,376,914	PE	B A A	TP-68 TP-69 TP-71	TC-FE TC-FE TC-FE

Equip-ment ID No.	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Permitted Throughput		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Device [3]
BC-32	C 2005	5 and 6	Belt Conveyor - transfers refuse from BC-31 to refuse area	1,500	7,376,914	PE	B A	TP-69 TP-70	TC-FE TC-MDH
BC-33	C 2005	5 and 6	Belt Conveyor - transfers refuse from BC-31 to BC-34 or BC-35	1,500	7,376,914	PE	B A A	TP-71 TP-72 TP-74	TC-FE TC-FE TC-FE
BC-34	C 2005	5 and 6	Belt Conveyor - transfers refuse from BC-33 to refuse area	1,500	7,376,914	PE	B A	TP-72 TP-73	TC-FE TC-MDH
BC-35	C 2005	5 and 6	Belt Conveyor - transfers refuse from BC-33 to BC-36 or BC-44	1,500	7,376,914	PE	B A A	TP-74 TP-75 TP-97	TC-FE TC-FE TC-FE
BC-36	C 2005	5 and 6	Belt Conveyor - transfers refuse from BC-35 to refuse area	1,500	7,376,914	PE	B A	TP-75 TP-76	TC-FE TC-MDH
BC-44	Not Yet Constructed *	5 and 8	Belt Conveyor - transfers refuse from BC-35 to refuse area (* Permitted in 2011, but not yet constructed as of 2017)	1,500	7,376,914	PE	B A	TP-97 TP-98	TC-FE TC-MDH

[1] In accordance with 40 CFR 60 Subpart Y, coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems constructed, reconstructed, or modified on or before April 28, 2008 shall not discharge gases which exhibit 20 percent opacity or greater. Coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems constructed, reconstructed, or modified after April 28, 2008 shall not discharge gases which exhibit 10 percent opacity or greater. For open storage piles constructed, reconstructed, or modified after May 27, 2009, the permittee shall prepare and operate in accordance with a fugitive coal dust emissions control plan that is appropriate for site conditions.

[2] All registered affected facilities under Class II General Permit G10-D are subject to Sections 1.0, 1.1, 2.0, 3.0 and 4.0.

[3] Control Device Abbreviations: FE - Full Enclosure; FW - Full Enclosure with Water Sprays; PE - Partial Enclosure; PW - Partial Enclosure with Water Sprays; WS - Water Sprays; TC - Telescopic Chute; UC - Under-pile Conveyor; MDH - Minimize Drop Height; NC - No Control; and NA - Not Applicable.

Emission Limitations

- Facility-wide Emissions - **Mingo Logan Coal Company Cardinal Preparation Plant**	**Maximum Controlled PM Emissions**		**Maximum Controlled PM_{10} Emissions**	
	lb/hour	TPY	lb/hour	TPY
Fugitive Emissions				
Open Storage Pile Emissions	2.95	12.91	1.39	6.07
Unpaved Haulroad Emissions	29.43	128.97	8.51	37.27
Paved Haulroad Emissions	45.61	199.80	8.85	38.77
Fugitive Emissions Total	*77.99*	*341.68*	*18.74*	*82.11*
Point Source Emissions				
Equipment Emissions	26.10	70.22	12.27	33.01
Transfer Point Emissions	42.48	65.48	20.09	30.97
Point Source Emissions Total (PTE)	*68.58*	*135.70*	*32.36*	*63.97*
FACILITY EMISSIONS TOTAL	**146.57**	**477.38**	**51.10**	**146.09**

Storage Tanks - *Not Applicable*

Source ID No.	Status	Content	Design Capacity			Orientation	G10-D Applicable Sections
			Volume	Diameter	Throughput		

Engines - *Not Applicable*

Source ID	Emission Source	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
		Nitrogen Oxides (NO_X)		
		Carbon Monoxide (CO)		
		Volatile Organic Compounds (VOCs)		
		Sulfur Dioxide (SO_2)		
		Particulate Matter (PM<10 microns)		
		Total HAPs		

Control Devices - *Not Applicable*

Control Device ID No.	Source ID No.	Date Constructed, Reconstructed, or Modified	Emission Unit Description (Make, Model, Serial No., etc.)

Reciprocating Internal Combustion Engines - *Not Applicable*

Emission Unit ID No.	Emission Unit Description (Make, Model, Serial No., etc.)	Year Installed	Design Capacity (Bhp/rpm)

Reciprocating Internal Combustion Engines (R.I.C.E.) Information - *Not Applicable*

Emission Unit ID No.	Subject to 40CFR60 Subpart IIII?	Subject to 40CFR60 Subpart JJJJ?	Subject to Sections 9.1.4/9.2.1 (Catalytic Reduction Device)